

**ENTERED**  
see page 6



OIKE

## RAW SEQUENCE LISTING

DATE: 05/22/2002

PATENT APPLICATION: US/09/744,012A

TIME: 13:39:38

Input Set : A:\2001-09-21 3631-0104P.ST25.txt

Output Set : N:\CRF3\05222002\I744012A.raw

```

3 <110> APPLICANT: Halkier, Torben
4      Jespersen, Lene
5      Jensen, Allan
7 <120> TITLE OF INVENTION: Novel Methods for the Identification of Ligand and Target
Biomolecules
9 <130> FILE REFERENCE: 3631-104P
11 <140> CURRENT APPLICATION NUMBER: US 09/744,012A
C--> 12 <141> CURRENT FILING DATE: 2001-09-21
14 <150> PRIOR APPLICATION NUMBER: PCT/DK99/00408
15 <151> PRIOR FILING DATE: 1999-07-16
17 <150> PRIOR APPLICATION NUMBER: DK PA1998 00956
18 <151> PRIOR FILING DATE: 1998-07-20
20 <150> PRIOR APPLICATION NUMBER: US 60/094,868
21 <151> PRIOR FILING DATE: 1998-07-29
23 <160> NUMBER OF SEQ ID NOS: 43
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 451
27 <212> TYPE: DNA
28 <213> ORGANISM: Hordeum vulgare
30 <220> FEATURE:
31 <221> NAME/KEY: CDS
32 <222> LOCATION: (85)..(339)
33 <223> OTHER INFORMATION:
35 <220> FEATURE:
36 <221> NAME/KEY: misc_feature
37 <222> LOCATION: (88)..(336)
38 <223> OTHER INFORMATION: mature peptide
40 <400> SEQUENCE: 1
41 cattaactg atgacatgac agttcaagat ctcacagtca catcggcgat ctaatcagtc      60
42 tcacaggaag cgagcgtaac aagg atg agt tca gtg gag aag aag ccg gag      111
43                               Met Ser Ser Val Glu Lys Lys Pro Glu
44                               1           5
45 gga gtg aac acc ggt gct ggt gac cgt cac aac ctg aag aca gag tgg      159
46 Gly Val Asn Thr Gly Ala Gly Asp Arg His Asn Leu Lys Thr Glu Trp
47 10                               15           20           25
48 cca gag ttg gtg ggg aaa tcg gtg gag gag gcc aag aag gtg att ctg      207
49 Pro Glu Leu Val Gly Lys Ser Val Glu Glu Ala Lys Lys Val Ile Leu
50                               30           35           40
51 cag gac aag cca gag gcg caa atc ata gtt ctg ccg gtg ggc acm att      255
W--> 52 Gln Asp Lys Pro Glu Ala Gln Ile Ile Val Leu Pro Val Xaa Xaa Ile
53                               45           50           55
54 gtg acc atg gaa tat cgg atc gay cgc gtc cgc ctc ttt gtc gat aaa      303
55 Val Thr Met Glu Tyr Arg Ile Asp Arg Val Arg Leu Phe Val Asp Lys
56                               60           65           70

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```

57 ctc gac aac att gcc cag gtc ccc agg gtc ggc tag caagcttgag      349
58 Leu Asp Asn Ile Ala Gln Val Pro Arg Val Gly
59      75                      80
60 agctagcctg ctgctggcgt gtatgtattg cagcttcacc atctcttctt ggctatagca      409
61 agattgagat ttataaatca tatacaataa gagttgctgc gg      451
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 84
66 <212> TYPE: PRT
67 <213> ORGANISM: Hordeum vulgare
69 <220> FEATURE:
70 <221> NAME/KEY: misc_feature
71 <222> LOCATION: (55)..(55)
72 <223> OTHER INFORMATION: The 'Xaa' at location 55 stands for Gly.
74 <220> FEATURE:
75 <221> NAME/KEY: misc_feature
76 <222> LOCATION: (56)..(56)
77 <223> OTHER INFORMATION: The 'Xaa' at location 56 stands for Thr.
79 <400> SEQUENCE: 2
81 Met Ser Ser Val Glu Lys Lys Pro Glu Gly Val Asn Thr Gly Ala Gly
82 1          5          10          15
83 Asp Arg His Asn Leu Lys Thr Glu Trp Pro Glu Leu Val Gly Lys Ser
84      20          25          30
85 Val Glu Glu Ala Lys Lys Val Ile Leu Gln Asp Lys Pro Glu Ala Gln
86      35          40          45
W--> 87 Ile Ile Val Leu Pro Val Xaa Xaa Ile Val Thr Met Glu Tyr Arg Ile
88      50          55          60
89 Asp Arg Val Arg Leu Phe Val Asp Lys Leu Asp Asn Ile Ala Gln Val
90 65          70          75          80
91 Pro Arg Val Gly
95 <210> SEQ ID NO: 3
96 <211> LENGTH: 27
97 <212> TYPE: DNA
98 <213> ORGANISM: artificial sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: primer derived from H. vulgare CI-2A protein
103 <400> SEQUENCE: 3
104 cgggatccat gaagacagtg gccagag      27
107 <210> SEQ ID NO: 4
108 <211> LENGTH: 28
109 <212> TYPE: DNA
110 <213> ORGANISM: artificial sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: primer from H. vulgare CI-2A protein
115 <400> SEQUENCE: 4
116 cgctcgagtc agccgaccct ggggacct      28
119 <210> SEQ ID NO: 5
120 <211> LENGTH: 21
121 <212> TYPE: DNA
122 <213> ORGANISM: artificial sequence

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```

124 <220> FEATURE:
125 <223> OTHER INFORMATION: primer from pCMVbipep
127 <400> SEQUENCE: 5
128 ctgtatctgg cggctccgtg g                                21
131 <210> SEQ ID NO: 6
132 <211> LENGTH: 19
133 <212> TYPE: DNA
134 <213> ORGANISM: artificial sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: primer for pmCATIREShyg
139 <400> SEQUENCE: 6
140 acagctggcc ctgcagac                                19
143 <210> SEQ ID NO: 7
144 <211> LENGTH: 20
145 <212> TYPE: DNA
146 <213> ORGANISM: artificial sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: primer for pmCATIREShyg
151 <400> SEQUENCE: 7
152 cccactgctt actggcttat                                20
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 19
157 <212> TYPE: DNA
158 <213> ORGANISM: artificial sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: primer for pmCATIREShyg
163 <400> SEQUENCE: 8
164 tggggctgca cgtcatttg                                19
167 <210> SEQ ID NO: 9
168 <211> LENGTH: 20
169 <212> TYPE: DNA
170 <213> ORGANISM: artificial sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: primer for pmCATIREShyg
175 <400> SEQUENCE: 9
176 tgtgctacgg cgagtttggt                                20
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 20
181 <212> TYPE: DNA
182 <213> ORGANISM: artificial sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: primer for pmCATIREShyg
187 <400> SEQUENCE: 10
188 ggttcgtgaa aggtccatt                                20
191 <210> SEQ ID NO: 11
192 <211> LENGTH: 22
193 <212> TYPE: DNA
194 <213> ORGANISM: artificial sequence
196 <220> FEATURE:

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```

197 <223> OTHER INFORMATION: primer for pmCATIREShyg
199 <400> SEQUENCE: 11
200 gaaatgttca caattagccc tg                                22
203 <210> SEQ ID NO: 12
204 <211> LENGTH: 60
205 <212> TYPE: DNA
206 <213> ORGANISM: artificial sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
211 <400> SEQUENCE: 12
212 gaagatctat ggcggccgca ccaaaaaaga agagaaaggt aggatccatg aagacagagt    60
215 <210> SEQ ID NO: 13
216 <211> LENGTH: 28
217 <212> TYPE: DNA
218 <213> ORGANISM: artificial sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
223 <400> SEQUENCE: 13
224 cgctcgagtc agccgaccct ggggacct                                28
227 <210> SEQ ID NO: 14
228 <211> LENGTH: 30
229 <212> TYPE: DNA
230 <213> ORGANISM: artificial sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: primer for human immunoglobulin heavy chain signal peptide
235 <400> SEQUENCE: 14
236 gaagatctat ggactggatc tggcgcatcc                                30
239 <210> SEQ ID NO: 15
240 <211> LENGTH: 28
241 <212> TYPE: DNA
242 <213> ORGANISM: artificial sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: primer for human immunoglobulin heavy chain signal peptide
247 <400> SEQUENCE: 15
248 gaggatccag aatgagcgcc ggtagcag                                28
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: artificial sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: primer for pCMVbipepLS/CI-2A
259 <400> SEQUENCE: 16
260 ctgtatctgg cggctccgtg g                                        21
263 <210> SEQ ID NO: 17
264 <211> LENGTH: 55
265 <212> TYPE: DNA
266 <213> ORGANISM: artificial sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A

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271 <400> SEQUENCE: 17
272 ctaatctaga ctacagctcg tccttgtagt cctcgaggcc gaccctgggg acctg      55
275 <210> SEQ ID NO: 18
276 <211> LENGTH: 29
277 <212> TYPE: DNA
278 <213> ORGANISM: artificial sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
283 <400> SEQUENCE: 18
284 cgggatccat gaagacagag tggccagag      29
287 <210> SEQ ID NO: 19
288 <211> LENGTH: 20
289 <212> TYPE: DNA
290 <213> ORGANISM: artificial sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
295 <400> SEQUENCE: 19
296 ccggccttat tccaagcggc      20
299 <210> SEQ ID NO: 20
300 <211> LENGTH: 28
301 <212> TYPE: DNA
302 <213> ORGANISM: artificial sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
307 <400> SEQUENCE: 20
308 ctgccggtgg gtacaattgt gaccatgg      28
311 <210> SEQ ID NO: 21
312 <211> LENGTH: 21
313 <212> TYPE: DNA
314 <213> ORGANISM: artificial sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
319 <400> SEQUENCE: 21
320 ctgtatctgg cggtccgtg g      21
323 <210> SEQ ID NO: 22
324 <211> LENGTH: 21
325 <212> TYPE: DNA
326 <213> ORGANISM: artificial sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
331 <400> SEQUENCE: 22
332 ctgtatctgg cggtccgtg g      21
335 <210> SEQ ID NO: 23
336 <211> LENGTH: 44
337 <212> TYPE: DNA
338 <213> ORGANISM: artificial sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: primer for pCMVbipep/CI-2A
343 <400> SEQUENCE: 23

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/744,012A

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 55,56

Seq#:2; Xaa Pos. 55,56

Seq#:33: N Pos. 21,22,23,24,26,27,29,30,32,33,35,36,38,39,41,42,44,45

## VERIFICATION SUMMARY

DATE: 05/22/2002

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Input Set : A:\2001-09-21 3631-0104P.ST25.txt

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:255  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48  
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0